

TAXONOMIC FERN NOTES. V. NEW COMBINATIONS
IN PERUVIAN SPECIES OF THELYPTERIS.

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The following new combinations are made in order to have suitable names for the species of *Thelypteris* in Peru. Many of the Andean species of the genus that are widely distributed in tropical America have been transferred to *Thelypteris* by, among others, Ching, Morton, and Proctor. However, few of the strictly Andean species that properly belong in *Thelypteris* have been placed there. In addition to the basionym, the name in *Dryopteris* and sometimes other synonyms are given for purposes of reference or explanation.

Thelypteris aspidioides (Willd.), comb. nov.

Ceterach aspidioides Willd. Sp. Pl. 5: 137. 1810.

Dryopteris aspidioides (Willd.) C.Chr. Ind. Fil. 253. 1905.

Thelypteris assurgens (Maxon), comb. nov.

Dryopteris assurgens Maxon, Jour. Wash. Acad. Sci. 34: 24. 1944.

Thelypteris Bangii (C.Chr.), comb. nov.

Dryopteris Bangii C.Chr. Danske Vid. Selsk. Skr. VII, 4: 333. 1907.

Thelypteris biformata (Rosenst.), comb. nov.

Dryopteris biformata Rosenst. Fedde Repert. 7: 300. 1909.

Thelypteris boqueronensis (Hieron.), comb. nov.

Dryopteris boqueronensis Hieron. Hedwigia 46: 329. 1907.

Thelypteris coarctata (Kze.), comb. nov.

Aspidium coarctatum Kze. Bot. Zeit. 1845: 287.

Dryopteris coarctata (Kze.) C.Chr. Ind. Fil. 258. 1905.

Thelypteris consobrina (Maxon & Morton), comb. nov.

Dryopteris consobrina Maxon & Morton, Bull. Torrey Club 65: 356. 1938.

Thelypteris deflexa (Presl), comb. nov.

Nephrodium deflexa Presl, Rel. Haenk. 1: 36. 1825.

Dryopteris Lindigii C.Chr. Ind. Fil. 275. 1905, *nom. nov.* for *N. deflexum* Presl; not *Dryopteris deflexa* (Kaulf.) C.Chr. 1905.

Thelypteris Lindigii (C.Chr.) Alston, Jour. Wash. Acad. Sci. 48: 233. 1958.

Thelypteris densa (Maxon), comb. nov.

Dryopteris densa Maxon, Jour. Wash. Acad. Sci. 34: 25. 1944.

Thelypteris dumetorum (Maxon), comb. nov.

Dryopteris dumetorum Maxon, Jour. Wash. Acad. Sci. 34: 26. 1944.

Thelypteris ensiformis (C.Chr.), comb. nov.

Dryopteris ensiformis C.Chr. Danske Vid. Selsk. Skr. VII, 10: 269. 1913.

Thelypteris falcata (Liebm.), comb. nov.

Meniscium falcatum Liebm. Danske Vid. Selsk. Skr. V, 1: 183. 1849.

Dryopteris falcata (Liebm.) C.Chr. Danske Vid. Selsk. Skr. VII, 10: 270. 1913; not *Dryopteris falcata* (L.f.) O.Ktze. 1891.

Dryopteris Jurgensenii (Fée) Maxon & Morton, Bull. Torrey Club. 65: 360. 1938.

Thelypteris furva (Maxon), comb. nov.

Dryopteris furva Maxon, Jour. Wash. Acad. Sci. 34: 24. 1944.

Thelypteris gigantea (Mett.), comb. nov.

Meniscium giganteum Mett. Fil. Lechler. 1: 19. 1856.

Dryopteris gigantea (Mett.) C.Chr. Ind. Fil. 267. 1905; not *Dryopteris gigantea* (Bl.) O.Ktze. 1891.

Dryopteris simplicifrons C.Chr. Ind. Fil. 486. 1906, *nom. nov.* for *M. giganteum* Mett.

Thelypteris glandulosolanosa (C.Chr.), comb. nov.

Dryopteris glandulosa-lanosa C.Chr. Dansk. Bot. Ark. 9 (3): 61. 1937.

Thelypteris Herzogii (Rosenst.), comb. nov.

Dryopteris Herzogii Rosenst. Meded. Rijks Herb. Leiden 19: 15. 1913.

Thelypteris Jamesonii (Hook.), comb. nov.

Nephrodium Jamesonii Hook. Sp. Fil. 4: 66. 1862.

Dryopteris Jamesonii (Hook.) C.Chr. Danske Vid. Selsk. Skr. VII, 10: 227. 1913.

Thelypteris laevigata (Kuhn), comb. nov.

Phegopteris laevigata Mett. ex Kuhn, Linnaea 36: 112. 1869.

Dryopteris laevigata (Kuhn) C.Chr. Ind. Fil. 273. 1905.

Thelypteris Leprieurii (Hook.), comb. nov.

Nephrodium Leprieurii Hook. Sp. Fil. 4: 106. 1862.

Dryopteris Leprieurii (Hook.) O.Ktze. Rev. Gen. 2: 813. 1891.

Thelypteris leucothrix (C.Chr.), comb. nov.

Dryopteris leucothrix C.Chr. Smiths. Misc. Coll. 52: 377. 1909.

Thelypteris Linkiana (Presl), comb. nov.

Grammitis Linkiana Presl, Tent. Pterid. 209. 1836, based on the description of *Gymnogramma polypodioides* by Link, Hort. Bot. Berol. 2: 50. 1833; not *Gymnogramma polypodioides* (Raddi) Spreng. 1827.

Gymnogramma diplazioides Desv. Mém. Soc. Linn. Paris 6: 214. 1827, as *diplazoides*.

Dryopteris diplazioides (Desv.) Urban, Symb. Antill. 4: 21. 1903; not *Dryopteris diplazioides* (Mett.) O.Ktze. 1891.

Dryopteris Linkiana (Presl) Maxon, Jour. Wash. Acad. Sci. 14: 199. 1924.

Thelypteris diplazioides (Desv.) Proctor, Bull. Inst. Jamaica Sci. Ser. 5: 59. 1953; not *Thelypteris diplazioides* (Moritz ex Mett.) Ching, 1936.

Thelypteris longifolia (Desv.), comb. nov.

Meniscium longifolium Desv. Mém. Soc. Linn. Paris 6: 223. 1827.

Dryopteris longifolia (Fée) Hieron. Hedwigia 46: 351. 1907, *illegit.*

Dryopteris Desvauuxii Maxon & Merton, Bull. Torrey Club 65: 369. 1938, *nom. nov.* for *M. longifolium* Desv.

Thelypteris lugubriformis (Rosenst.), comb. nov.

Dryopteris lugubriformis Rosenst. Fedde Repert. 7: 299. 1909.

Thelypteris Macbridei (Maxon), comb. nov.

Dryopteris Macbridei Maxon, Jour. Wash. Acad. Sci. 34: 25. 1944.

Thelypteris macrotis (Hook.), comb. nov.

Nephrodium macrotis Hook. Sp. Fil. 4: 86. 1862.

Dryopteris macrotis (Hook.) O.Ktze. Rev. Gen. 2: 813. 1891.

Thelypteris membranacea (Mett.), comb. nov.

Phegopteris membranacea Mett. Fil. Lechler. 2: 22. 1859.

Dryopteris membranacea (Mett.) C.Chr. Ind. Fil. Suppl. 35. 1913.

Thelypteris mollis (Mett.), comb. nov.

Phegopteris mollis Mett. Ann. Sci. Nat. V, 2: 242. 1864.

Dryopteris permollis Maxon & Morton, Bull. Torrey Club 65: 372. 1938, *nom. nov.* for *P. mollis* Mett.; not *Dryopteris mollis* (Jacq.) Hieron. 1907.

Thelypteris nemoralis (Sod.), comb. nov.

Nephrodium nemorale Sod. Crypt. Vasc. Quit. 267. 1893.

Dryopteris nemoralis (Sod.) C.Chr. Ind. Fil. 279. 1905.

Thelypteris nervosa (Kl.), comb. nov.

Polypodium nervosum Kl. Linnaea 20: 386. 1847; not *Polypodium nervosum* Boj. Hort. Maurit. 419. 1837, *nomen nudum*.

Dryopteris nervosa (Kl.) C.Chr. Ind. Fil. 279. 1905.

Thelypteris nitens (Desv.), comb. nov.

Polypodium nitens Desv. Mém. Soc. Linn. Paris 6: 240. 1827.

Dryopteris nitens (Desv.) C.Chr. Danske Vid. Selsk. Skr. VII, 10: 142. 1913.

Thelypteris Pavoniana (Kl.), comb. nov.

Polypodium Pavonianum Kl. Linnaea 20: 386. 1847.

Dryopteris Pavoniana (Kl.) C.Chr. Ind. Fil. 283. 1905.

Thelypteris peruviana (Rosenst.), comb. nov.

Dryopteris peruviana Rosenst. Fedde Repert. 7: 298. 1909.

Thelypteris phacelothrix (C.Chr. & Rosenst.), comb. nov.

Dryopteris phacelothrix C.Chr. & Rosenst. Fedde Repert. 11: 56. 1912.

Thelypteris pilosula (Mett.), comb. nov.

Aspidium pilosulum Mett. Fil. Hort. Bot. Lips. 130. 1856, based on the description of *Aspidium lasiesthes* by Mett. *op. cit.* 90; not *Aspidium lasiesthes* Kze. 1850; not *Aspidium pilosulum* Wall. Cat. no. 337. 1829, *nomen nudum*.

Dryopteris pilosula Hieron. Hedwigia **46**: 332. 1907.

Dryopteris pilosula (Mett.) C.Chr. Danske Vid. Selsk. Skr. VII, **4**: 277. 1907.

The earlier publication of the name *Aspidium pilosulum* by Kunze, Linnaea **23**: 229. 1850, was without description. Accordingly, the "new combination" by Hieronymus in *Dryopteris*, with description, is actually a new name for a new species. Christensen's acceptable combination, then, becomes a later homonym.

Thelypteris pteroidea (Kl.), comb. nov.

Polypodium pteroideum Kl. Linnaea **20**: 389. 1847.

Dryopteris pteroidea (Kl.) C.Chr. Ind. Fil. 287. 1905.

Thelypteris Rolandii (C.Chr.), comb. nov.

Dryopteris Rolandii C.Chr. Danske Vid. Selsk. Skr. VII, **10**: 258. 1913.

Thelypteris Rosei (Maxon), comb. nov.

Dryopteris Rosei Maxon, Smiths. Misc. Coll. **65** (8): 10. 1915.

Thelypteris Rosenstockii (C.Chr.), comb. nov.

Dryopteris Rosenstockii C.Chr. Danske Vid. Selsk. Skr. VII, **4**: 304. 1907.

Thelypteris Rusbyi (C.Chr.), comb. nov.

Dryopteris Rusbyi C.Chr. Smiths. Misc. Coll. **52**: 390. 1909.

Thelypteris Standleyi (Maxon & Morton), comb. nov.

Dryopteris Standleyi Maxon & Morton, Bull. Torrey Club. **65**: 368. 1938.

Thelypteris subandina (C.Chr. & Rosenst.), comb. nov.

Dryopteris subandina C.Chr. & Rosenst. Fedde Repert. **12**: 472. 1913.

Thelypteris tristis (Kze.), comb. nov.

Polypodium triste Kze. Linnaea **9**: 47. 1834.

Dryopteris tristis (Kze.) O.Ktze. Rev. Gen. **2**: 814. 1891.

Thelypteris Warmingii (C.Chr.), comb. nov.

Dryopteris Warmingii C.Chr. Danske Vid. Selsk. Skr. VII, **10**: 227. 1913.

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